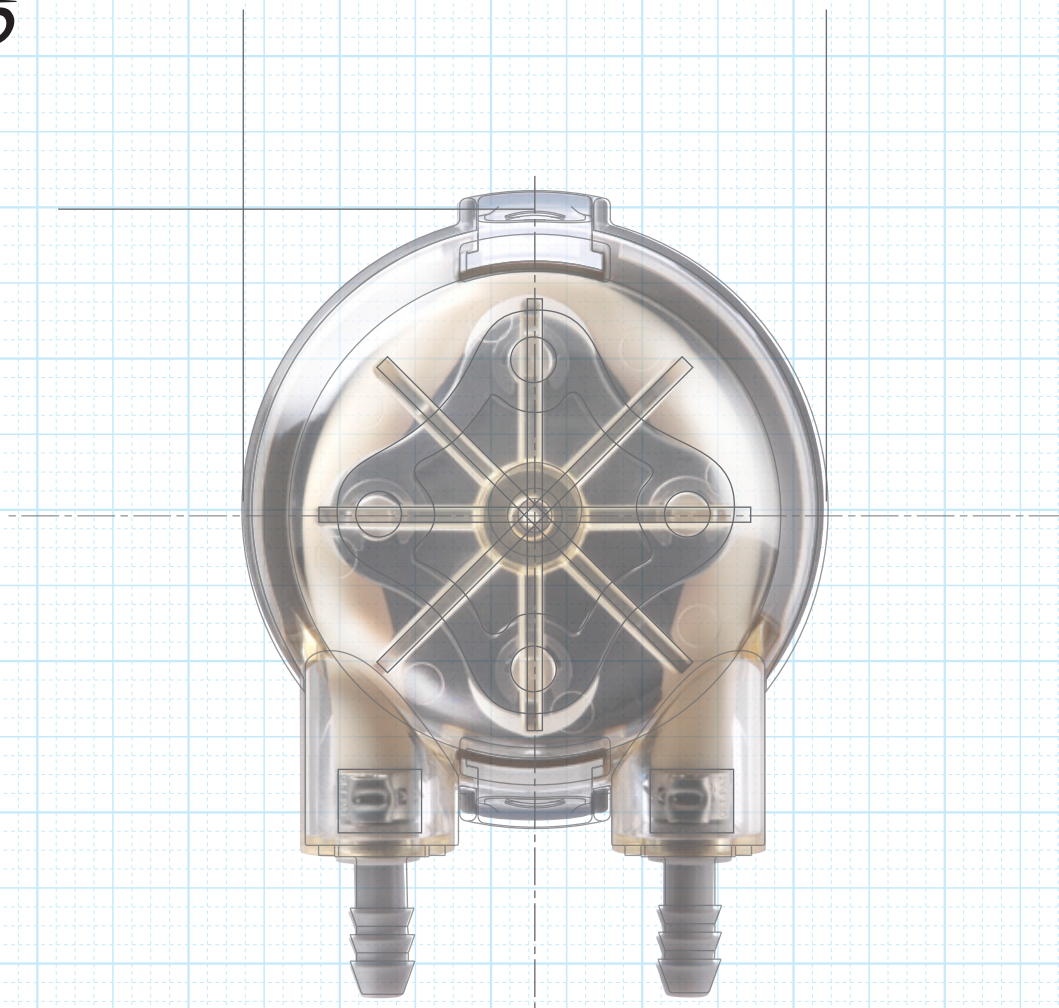


Pump Your Needs.

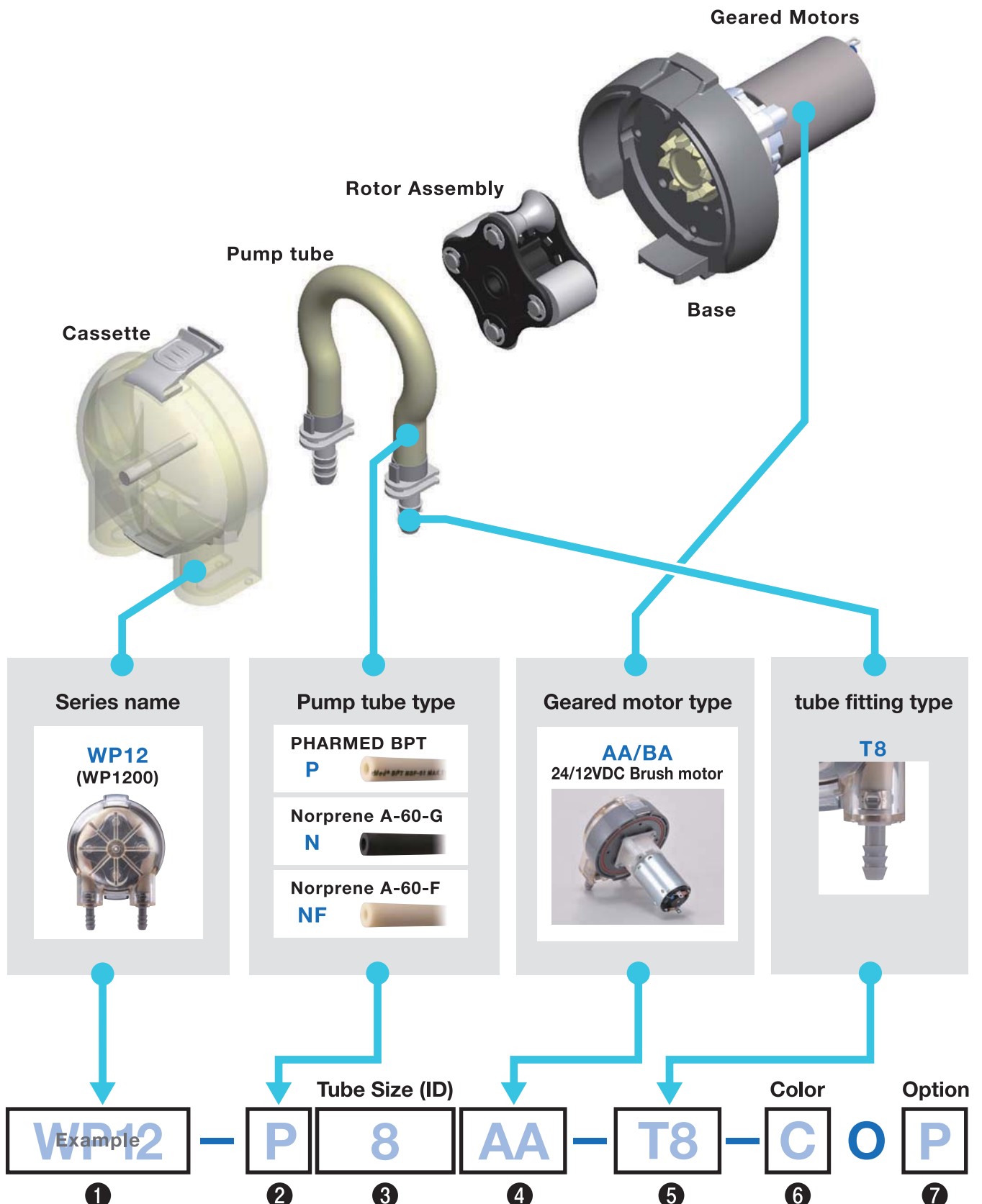


**WELCO's easy ordering system
can match the best product to the customer's needs**

WP1200 PERISTALTIC PUMP SELECTION GUIDE




WELCO Peristaltic pumps use a custom ordering system that enables part types and sizes to be selected according to the desired application.

Selection method for customization of pumps
Select the part number according to the following guide



② Pump tube type: Material (Selectable according to fluid type)

WP12 - P 8 - - - O

Tube type	Product Description
PHARMED BPT P 	“Chemical manufacturing and bio-tubes” with long service life and excellent acid and alkali resistance Meets USP Class VI, FDA and NSF 51 criteria
Norprene A-60-G N 	“Industrial tubes” High performance alternative to general purpose rubber tubing
Norprene A-60-F NF 	“Compatible with virtually all common sanitizers and cleaners.” “Can be autoclaved repeatedly.” Meets FDA, 3-A and NSF 51 criteria

Note: Pharmed, Norprene are manufactured by Saint-Gobain Group.

③ Flow amount benchmark (flow amount per rotation)

Tube inner diameter (mm)	7.9	8
Available tube material	N, NF	P
Wall thickness (mm)	2.38	2.0
Flow amount (ml/rev)	5.9	5.25

Caution: The above table describes the initial benchmark flow amounts during water suction.
 This may vary considerably depending on the tube type, use period, ambient temperature,
 and lot tolerances, etc. Measure the specifications with reasonable leeway.

4 Gear motor types



DC Brush Motor & Gear

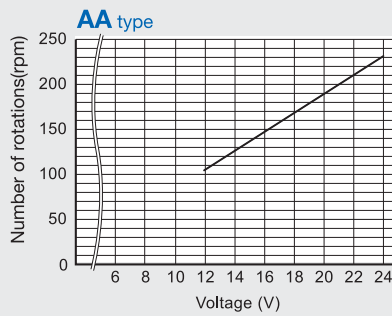
WP12 - P 8 AA - - - 0

Geared motor Specification

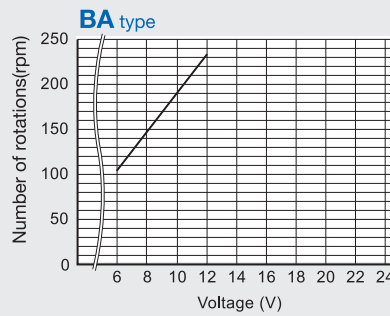
Geared motor model	AA type	BA type
Rated voltage	DC24V	DC12V
RPM (load: 400mNm)	230rpm(24V input)	230rpm(12V input)
Recommended voltage	12V-24V	6V-12V
Consumption current	1.0A	2.0A
Rotary Direction	CW,CCW	
Motor operating temperature	less than 70°C (158°F)	
Motor Insulation class	A	

Caution: The consumption current described above is the value during normal operations. An approximately threefold inrush current occurs during rotation startup.
Available operating time: continuously Max 5 min, OFF Duty 50%.

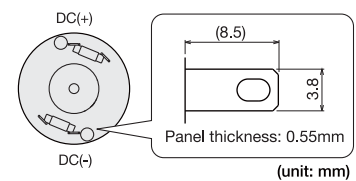
24VDC Brush Motor & Gear



12VDC Brush Motor & Gear



Motor wiring and terminal dimensions diagrams



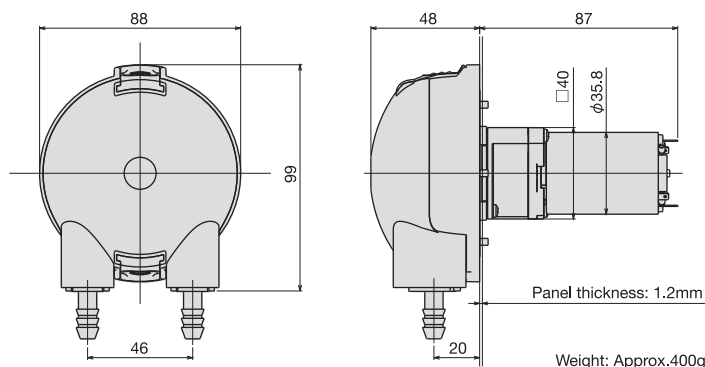
Flow amount benchmark (flow amount per rotation)

Tube inner diameter (mm)	7.9	8
Available tube material	N, NF	P
Wall thickness (mm)	2.38	2.0
Flow amount (ml/rev)	5.9	5.25

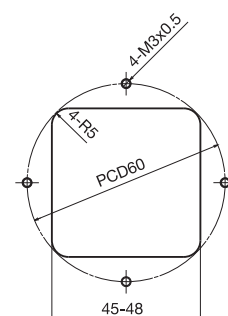
Caution: The above table describes the initial benchmark flow amounts during water suction.
This may vary considerably depending on the tube type, use period, ambient temperature, and lot tolerances, etc. Measure the specifications with reasonable leeway.

Dimensions (unit: mm)

• WP12 - AA • WP12 - BA



Cutting hole dimensions



5 Tube fitting type: Descriptions & Sizes



T8

- Available pump tube sizes (OD)
7.9mm or 8mm
- Connectable hose sizes (ID)
8.0mm (Nylon or Polyethylene)

Barbed type. Inserted directly into hose and used.

WP12 - P 8 AA - T8 - O

*Please use sort of clamp band in order to avoid the hose slipping out.
*Clamp band is not included in accessories.

6 Color variation

A 5-color lineup that can be classified for use according to the type of liquids used

WP12 - P 8 AA - T8 - C O



C: Clear



B: Blue



Y: Yellow



R: Red



G: Green

7 Using an optional panel

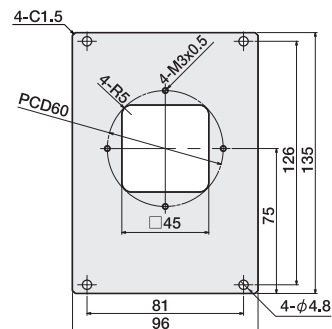
WP12 - P 8 AA - T8 - C O P

P: with bracket

N or Blank: without bracket






Option bracket dimensions (unit: mm)



Thickness: 1.2mm
Material properties: SUS304

General specifications

Recommended installation height	2 meter (6.8 ft.) max (Water suction)
Liquid temperature range	5-50°C (41 to 122°F)
Environment temperature range	0-50°C (32 to 122°F) (Note: Freezing must be prevented.)
Ambient humidity range	20-80% RH (Note: Condensation must be prevented.)
Certifications&Approvals	   RoHS

Precautions

1. When selecting a tube, the customer should perform a verification test to verify the chemical suitability according to the usage environment and the intended application.
2. Regardless of the pump tube type, the phenomenon of peeling from inside of the tube starts with small amounts.
3. This product was not designed for medical use. Do not use for medical applications.
4. This product is not waterproof. If using in water-filled environments, design to protect against water.
5. Numerical data listed in this catalog reflect conditions measured over short periods of time. Their accuracy for long-term use is not assured.
6. There is a tendency for the flow rate to increase until the tube becomes acclimated, and even among the same model, different lots may have different flow rates within the specified tolerances. Also, the rotating speed of the DC motor may fluctuate depending on the load conditions and changes in the motor temperature. During the design stage, be sure to select a motor with ample capacity.



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Please see the web site to get more detailed information. <http://www.welco.net>

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